

Minutes, 2/04/04 Tevatron BPM Upgrade Meeting
Stephen Wolbers

This set of minutes, and all future minutes, are or will be deposited in the Beams Document Database as document number 792.

The agenda as announced consisted of:

1. Report from Steve and Bob.
2. Reports from L2 managers.
3. AOB.

1. Report from Bob and Steve.

- Bob is away at Brookhaven but did collect some turn-by-turn data and set an email with the results to the tev-bpm-project mailing list.

- DOE review is Feb 24-26. We don't know yet how the Tev BPM project will be participating but do expect to deliver talks in the breakout sessions.

- The proper establishment of the AIP may be an issue for the project. The Echotek requisition is being held because the AIP is not yet finished (or even started). [News from late Wednesday, early Thursday: The requisition is moving again. It is specially flagged and plans are being made to allocate funds for the project.]

- The MVME requisition is moving along with the Echotek requisition. Other requisitions should be written as soon as they can be, once the relevant design, interface and compatibility issues are understood.

- The Thursday meeting this week will cover timing and crate layout/design issues.

- A special Friday meeting will be held to discuss software specifications.

- Bob is away Wednesday afternoon and Thursday and Friday.

- Steve is away all of next week (Feb 9-13).

- Jim will organize and announce the meetings next week.

2. Reports from L2 Managers

Technical Coordinator: Jim Steimel

- Jim has looked at Rob Kutschke's note (AD Doc 988) and does not see perfect agreement between it and the calculations/simulations that Jim has obtained so far. Jim and Rob will have to discuss this when Rob returns. The question of how we understand the differences and understand the behavior of the pickups was discussed. We want to do the proton-only beam scan as soon as we are ready. This requires I and Q from the Echotek. In addition, we will need to make bench measurements. Some thought has to go into the exact measurements that we want to make. Some issues are:

= There are some software issues of merging Duane Voy's and Luciano Piccoli's modifications. This should be worked out.

= The damper board should be reinstalled. This will allow comparison of the damper board and the Echotek board.

= The test bench scan hasn't yet started, needs to get going.

= The measurements will be coordinated by Jim.

Mike Martens:

- Mike is working on the buffer diagram and in particular a description in words of what is on only a diagram right now. There was at this point a long discussion of buffers in general. Each channel of a BPM could be a buffer. Or the buffers could be p and pbar calculated quantities. Or the buffers could contain raw data, not position data. All of these issues will be addressed again in the Friday meeting.

Vince Pavlicek:

- There has been work on the timing/trigger system. The next discussion will be Thursday at 1:30.

Brian Hendricks:

- Working on the online software specifications. Hope to have a draft soon for people to look at.

Margaret Votava:

- The test stand in FCC is now booting successfully. The TCLK signals are not yet available as this requires a shutdown of the accelerator clock system.

- Luciano Piccoli understands the Recycler BPM software and there will be some proposals for changes for the Tevatron soon.

- Work on the specifications document continues.

3. AOB.

- The near-term schedule has:

Thursday, February 5, 1:30 P.M. (Timing discussion)

Friday, February 6, 9:00 A.M. (DAQ SW discussion)